

MINISTRY FOR EDUCATION & SCIENCE OF UKRAINE  
UKRAINIAN ASTRONOMICAL ASSOCIATION  
RESEARCH INSTITUTE “NIKOLAEV ASTRONOMICAL OBSERVATORY”

**ENLARGEMENT OF COLLABORATION  
IN GROUND-BASED ASTRONOMICAL RESEARCH  
IN SEE COUNTRIES. STUDIES OF THE NEAR-EARTH  
AND SMALL BODIES OF THE SOLAR SYSTEM**

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## **NIKOLAEV OBSERVATORY AS A HISTORICAL, ASTRONOMICAL AND ARCHITECTURAL MONUMENT OF THE ASTRONOMY AND WORLD HERITAGE**

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Nikolaev Astronomical Observatory (NAO) is a monument of historical, astronomical, and architectural heritage of the Northern Black Seashore. NAO is the oldest naval observatory in the Eastern Europe. NAO is the oldest one among functional observatories of the CIS, which has preserved its initial make-up and basic profile of astronomical research. NAO was founded as the naval observatory by admiral A. Greigin in 1821. The main object of world heritage is the main building of the observatory, which was built in 1821-29 taking into account astronomical requirements. The unique ancient astronomical instruments, such as, the meridian circle and portable vertical circle, made by Repsold firm, were preserved in NAO. The observatory has a collection of astronomical clocks made in the 18th-19th centuries and collection of astronomical books published in the 17th-19th centuries.

### **DEVELOPMENT OF THE DIGITAL DATABASE OF NIKOLAEV ASTRONOMICAL OBSERVATORY**

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Development of the digital database of Nikolaev Astronomical observatory (NAO) began in 1995, when the Axial Meridian Circle (AMC) began to make CCD observations. Astrometric catalogues existed at that moment and data of the CCD observations obtained with the AMC were included into the digital database.

The NAO network has considerably grown up and today it includes more than 40 personal computers in four separate buildings. The network is managed by two dedicated servers. Control computers of three telescopes are also connected to the network.